

INTELLIGENT TRANSPORTATION APPLICATION

General Instructions:

This Excel form is to be used to request federal Congestion Mitigation and Air Quality (CMAQ) funding available through the Maricopa Association of Governments (MAG) for Bicycle Projects to be included in the FY2014-FY 2018 MAG Transportation Improvement Program. Funding is available for Federal Fiscal Year (FFY) 2015, 2016 and 2017.

This application form includes:

- Part A - Contact and Project Description,
- PART B - ITS TIP Listing and CMAQ Score Data,
- PART C - ITS project Description,
- Part D - Checklist and Signature Page, and Transmittal Instructions and Schedule.

Each part is a separate tab of this excel file. Please complete Parts A - D. Alternative application forms are available upon request.

Deadlines and Transmittal Instructions:

Two copies of a printed, complete and signed application must be received in the MAG offices by **10:00 a.m. Wednesday, September 19, 2012**. The application is to be submitted electronically and should include ArcGIS shape files depicting the project location if they are available.

Detailed transmittal instructions are located in a separate tab in this excel sheet. Late applications **will not be accepted.**

If member agencies need additional information or have questions, they should contact Teri Kennedy or Stephen Tate at (602) 254-6300 or contact them by e-mail at the following addresses:

<mailto:state@azmag.gov>
<mailto:tkennedy@azmag.gov>
<mailto:LLuo@azmag.gov>

All information is required, unless noted by the word - Optional.

PART A - CONTACT AND PROJECT DESCRIPTION

Contact Information	
1. Sponsoring Agency	City of Peoria
2. Contact Name	Jamal Rahimi / Ronald Amaya
3. Phone	623-773-7224/623-773-7602
4. E-Mail Address	jamal.rahimi@peoriaaz.gov/ronald.amaya@peoriaaz.gov
5. Mailing Address	9875 N 85th Ave, Peoria, AZ 85345

(OPTIONAL)

If the applicant will be providing a GIS coverage (shapefile or geodatabase), please see the tab labeled "GIS Transmittal Instructions)

[GIS Submittal Instructions](#)

ITS Application from City of Peoria for 'TMC Equipment Replacement'

PART B-ITS TIP Listing and CMAQ Score Data

This part of the form identifies data to calculate an CMAQ Score and provide the minimum data needed for a listing of the project in the Transportation Improvement Program

Federal Funding Eligibility

All ITS projects to be funded with Federal CMAQ funds must be in the 8-Hour Ozone Nonattainment Area. Please use the following link to verify that the map is located in the nonattainment area:

[Link to an 8-Hr Ozone Nonattainment Map on the MAG Website](#)

1. Traffic Estimate and Roadway Characteristics

a. Current Average Daily Traffic (ADT) on the Facility or the Nearest Parallel Facility of a Similar Type:

b. Please Describe how the ADT was estimated:

c. When was the ADT estimate developed:

d. Name of the Roadway Section Used for the ADT Estimate:

e. Starting Limit of the Roadway Section:

f. Ending Limit of the Roadway Section:

g. Length (Miles)

h. Total Number of Through Lanes on the Roadway Section:

i. Federal Functional Classification of the Roadway Section:
[Link to Functional Classification Map on the MAG Website](#)

2. Traffic Coordination Improvements. If the project improves traffic signal coordination, please do the following:

a. Enter the pre-improvement (current) traffic speed of the traffic corridor:

b. In the Table Check the Box in The Row That Best Describes the Project (Check Only One Box):

	Before (Pre-Improvement) Condition	After (Post Improvement) Condition	Expected Increase In Speed
<input type="checkbox"/>	Interconnected, pre-timed signals with old timing plan	Advanced computer-based control	17.5 percent
<input type="checkbox"/>	Non-interconnected signals with traffic-actuated controllers	Advanced computer-based control	16.0 percent
<input checked="" type="checkbox"/>	Interconnected, pre-timed signals with actively managed timing	Advanced computer-based control	8.0 percent
<input type="checkbox"/>	Interconnected, pre-timed signals with various forms of master control and various qualities of timing plans	Optimization of signal timing plans. No change in hardware	12.0 percent
<input type="checkbox"/>	Non-interconnected, pre-timed signals with old timing plan	Optimization of Signal Timing Plans	7.5 percent

3. Other Improvements. Check all that apply:

- Includes Traffic Signal Improvements for a Single Agency
- Includes Traffic Signal Improvements that Apply to More than One Agency
- Includes FMS Improvements
- The Project Conforms to Local Land Use Plans
- Adds Traffic Signals that increase pedestrian crossing time for seniors

4. Traffic Speed Impacts of the Project (Not required for Traffic Coordination Improvements)

a. Enter the pre-improvement (current) traffic speed of the traffic corridor:

b. Enter the post-improvement (current) traffic speed of the traffic corridor:

PART C -ITS project Description

Please enter project data ONLY in highlighted cells, save the file with the lead agency name in it - ie. City 0 ITS Projects.xls

Submit this Excel workbook to MAG via email to: lluo@azmag.gov

Please use one worksheet per project, with the tab at the bottom indicating agency priority – Mesa1, Mesa2,.. etc.

Links to various websites are provided for additional information and help

The worksheet titled "Example" shows an example on how to enter Data in the highlighted areas

Please enter required information in highlighted cells

A. Project Title & Sponsor

Lead Agency	City of Peoria
Other Partnering Agencies	
ITS Project Title:	TMC Equipment Replacement
Project Category:	Arterial ITS

B. Project Goals & Objectives

Project Goals: Replace TMC/ITS Equipment
Objectives: Upgrade legacy electronic equipment to continue operation of Peoria's Traffic Mangement Center.

C. Project Information

Project Location: City of Peoria, DCSB Building, TMC 9875 N. 85th Avenue
Scope of the project: Replace legacy TMC equipment, including but not limited to switches, servers, workstations, video screens, wall encoders, firewall.

D. Identify Components in MAG Regional ITS Architecture

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<u>ITS applications</u>	Relevant Applications (ENTER: Yes or No)	Applicable ITS Market Packages http://www.azmag.gov/ITS/	Note: Please attach the Architecture Flow Diagram in the application
1. Traffic Management	Yes	ATMS01, ATMS03	Please see attached
2. Transit Operations Support	No		
3. Communications	No		
4. Traveler Information	No		
5. Archived Data Management	Yes	AD2	
6. ITS for Safety	No		
7. ITS Plans	Yes		
8. Freeway-Arterial Operations	No		

E. Program Year Preference

First Choice FY2015 FY2016 FY2017

Second Choice FY2015 FY2016 FY2017

Third Choice FY2015 FY2016 FY2017

F. Project Budget

	Federal Cost	Local Match (min 5.7%)	Total Cost
Amount	\$482,345.00	\$29,156.00	\$511,501.00
Cost percentage	94.3%	5.7%	

G. Project Schedule

The table below is provided as a tool to assist local agencies develop a project planning schedule. Column A shows standard project milestones and Column B shows the schedule based on a typical project procurement process. To generate a custom Project Schedule:(1) select applicable milestones in Column C;(2) Enter estimated time to complete milestone measured in months from project development start date in Column D; **NOTE: The project obligation date generated in cell E111 MUST occur before Sept 15th of the programmed fiscal year.** Determine the appropriate **Project Activity Start Date** (by trial-and-error) in order to obligate the project on time.

Standard Project Milestones	Default Schedule for Process	Applicable Milestones (ENTER - Yes OR No)	Estimated Time to Milestone (ENTER #Months)	Estimated Date
Apply for ADOT project number				Aug-2015
Receipt of ADOT project number	Oct-2015	Yes	2	Oct-2015
Initial DCR	Nov-2015	Yes	3	Nov-2015
Final DCR	Dec-2015	Yes	4	Dec-2015
30% Preliminary Plans, Cost Estimate and Report	Feb-2016	Yes	7	Mar-2016
60% Preliminary Plans, Cost Estimate and Report	Apr-2016	Yes	9	May-2016
Final Preliminary Plans, Cost Estimate and Report	Jun-2016	Yes	11	Jul-2016
Environmental Clearance	Apr-2016	Yes	24	Aug-2017
Utility Clearance	May-2016	Yes	10	Jun-2016
Right-of-Way Clearance	Feb-2016	Yes	10	Jun-2016
Approval of IGA	Aug-2016	Yes	14	Oct-2016
Obligation authority of Federal funds	Sep-2016	Yes	15	Aug-2017
Advertised Date	Nov-2016	Yes	2	Oct-2017
Final Deployment	May-2017	Yes	7	May-2018

< ENTER mm/yyyy -- Project Activity S

H. System Maintenance and Operations

Current staff resources available for ITS operations at the local
Additional staff resources required for fully utilizing features added by
Estimated current annual ITS operations & maintenance budget
Estimated additional annual operations & maintenance funds required
Estimated DATE from when required additional O&M funds will be

2
None
\$70,000
\$0
Aug-2014

Other comments:

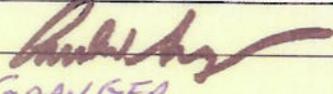
I. Systems Engineering Analysis Requirement

Commitment to address the federal requirement for Systems Engineering Analysis:
Agency's intent to follow the process described in the 'V' diagram
during the project development process

<http://www.azdot.gov/Highways/TTG/PDF/SystemsEngineeringChecklist.pdf>

PART D - SIGNATURE AND CHECKLIST

As the jurisdiction's manager/administrator or designated representative, I certify that this application is accurate and complete and that the project will be included in the sponsoring MAG member agency's local CIP/TIP if the project is selected for federal funding.

Signature: 
 Name: ANDY GRANGER
 Title: ENGINEERING DIRECTOR
 Date: 9-18-12

WILL FILL OUT AFTER QUESTIONS APPROVED.

Checklist - OPTIONAL

This check list is optional, but is included to facilitate applicant review and verification that all required fields in the form have been completed.

PART A - Contacts and Project Description Fields	Complete?
Contact Information, fields 1 -- 5 are complete	YES
PART B - TIP Listing and CMAQ Score Data	Complete?
1. Traffic Estimate and Roadway Characteristics - Fields a - I are complete	
2. Traffic Coordination Improvements - as applicable table is complete	YES
3. Other Improvements - As applicable all fields are completed	YES
PART C - Total Project Schedule and Budget Including All Segment Fields	Complete?
Section A is Complete	YES
Section B is Complete	YES
Section C is Complete	YES
Section D is Complete	YES
Section E is Complete	YES
Section F is Complete	YES
Section G is Complete	YES
Section H is Complete	YES
Section I is Complete	YES
PART D - Signature Page Fields	Complete?
Form is signed	YES
Name, title and date fields are completed.	YES

ITS Application from City of Peoria for 'TMC Equipment Replacement'

**MAG CMAQ Project
TMC Equipment Replacement
Intelligent Transportation Systems Project**

Item Description	Unit	Quant.	Unit Prices	Total	Eligible for CMAQ?
A. SCOPING (15% Preliminary Engineering Design) (Non-infrastructure projects: Only #2 applies).					
1. SITE TOPOGRAPHIC SURVEY	LS			\$0.00	No
2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN	LS			\$0.00	No
3. SYSTEMS ENGINEERING ANALYSIS (must address FHWA requirements)	LS			\$0.00	No
4. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)	LS			\$0.00	No
5. HAZMAT ASSESSMENT	LS			\$0.00	No
SUBTOTAL – PROJECT SCOPING COSTS				\$0.00	\$0

B. FINAL PRELIMINARY ENGINEERING DESIGN - Stages II, III, IV and PS&E
(Not applicable to non-infrastructure projects)

Item Description	Unit	Quant.	Unit Prices	Total	Eligible for CMAQ?
1. Right-of-Way Acquisition	LS	1		\$0.00	No
2. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.	LS	1		\$0.00	No
3. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report	LS	1		\$0.00	No
4. DRAINAGE REPORT	LS	1		\$0.00	No
5. Storm Water Pollution Prevention Plan (SWPPP)	LS	1		\$0.00	No
SUBTOTAL – PROJECT DESIGN COSTS				\$0.00	\$0

C. CONSTRUCTION OR IMPLEMENTATION

For non-infrastructure projects (no ground disturbing activities), address only parts 2, 3 and D.

1. CONSTRUCTION ELEMENTS (Insert additional rows if necessary)

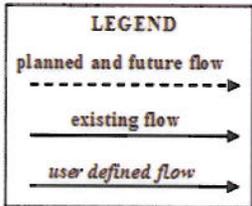
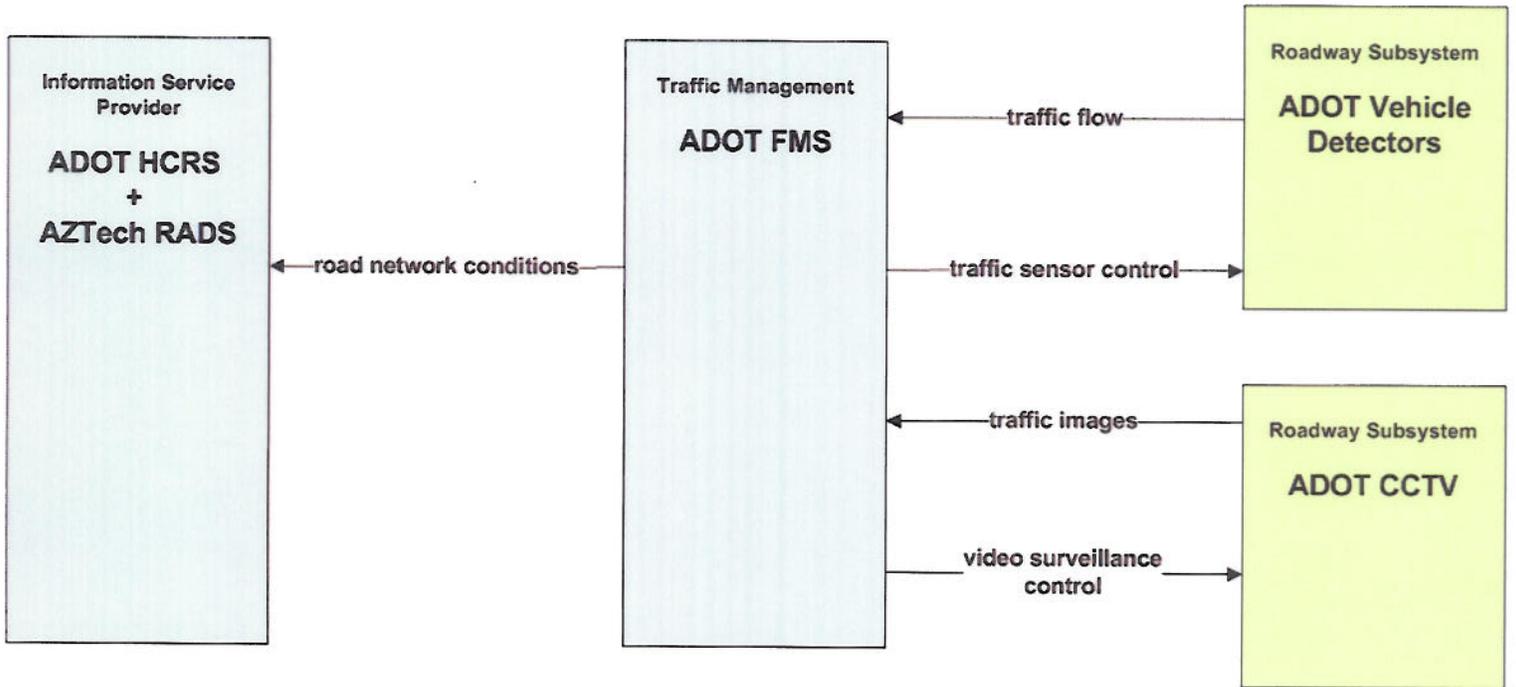
Item Description	Unit	Quant.	Unit Prices	Total	Eligible for CMAQ?
E. TOTAL PROJECT COST (All <u>subtotals</u> + ADOT local projects review fee)				\$526,500	\$511,500



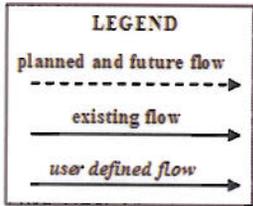
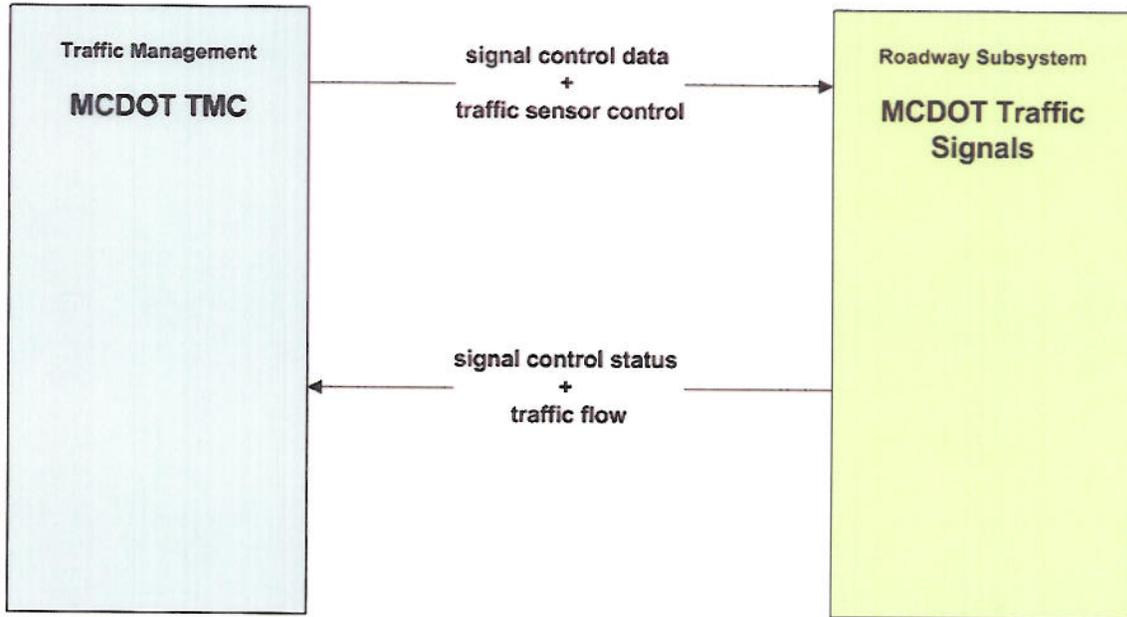
F. SUMMARY OF FEDERAL AND NON-FEDERAL FUNDS

TOTAL COST FOR PROJECT CONSTRUCTION/IMPLEMENTATION	\$526,500
TOTAL COST FOR PROJECT ELIGIBLE FOR FEDERAL REIMBURSEMENT	\$511,500
TOTAL FEDERAL FUNDS @ 94.3% (.943 x Total Eligible Cost shown highlighted above)	\$482,345
LOCAL AGENCY MATCHING FUNDS (.057 x Total Cost shown highlighted above)	\$29,156

**ATMS01 - Network Surveillance
Arizona DOT**



**ATMS03 - Surface Street Control
Maricopa County**



**AD2 - ITS Data Warehouse
AZTech RADS**

